

MATERIAL SAFETY DATA SHEET

Technical Barrier Systems
 151 Randall Street
 Oakville, Ontario, Canada, L6J 1P5
 (905) 842-9488

PRODUCT : EMBE Crack Filler - Resin



SECTION 01 : PRODUCT INFORMATION

Supplier	Technical Barrier Systems Inc.
Product Identifier	EMBE Crack Filler Resin
TradeName	EMBE Crack Filler Resin
Prepared by	R.K. Seaman
Preparation Date	12-Oct-02
Revision #	
CEPA Status	All of the ingredients of this product are listed on the Domestic Substance List (DSL)
Chemical Family	Resin Solution
Chemical Formula	Resin Solution
Chemical Name	
Material Use	Crack Filler
Molecular Weight	N/A
T.D.G. Classification	Not Regulated
WHMIS Classification	

SECTION 02 : HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS, %, EXPOSURE LEVELS, C.A.S. #, LD/50, ROUTE, SPECIES, LC/50, ROUTE, SPECIES

NPEL 128		25068-38-6	30 GR/KG/Rat/Oral
Benzyl Alcohol		100-51-6	
Titanium Oxide	86-97%	13463-67-7	N/A
	1-5%	21645-51-2	N/A
	3-7%	1343-98-2	N/a
Antifoam A		NJTS Reg 11199500000-5065 Syntethic Hydrocarbon	
		NJTS eg 111995000-5002P Diol Ester	
Dinonyl Phenol		84962-08-3	10,00 MG/KG Rat Oral
Beetle 216-8		Butanol 000071-36-3	100 ppm OSHA
		Formaldehyde 00050-00-0	2 ppm OSHA
DC 54	15-40%	7631-86-9	
	1-5%	124-68-5	
	.1-1%	556-67-2	
	.1-1%	64742-52-5	
Sterling Black	20-50%	002210-79-9	
	5-20%	0013330-86-4	
Yellow Oxide	5-10%	0057-55-6	
	1-5%	014807-96-6	
	1-5%	068412-54-4	
	1-5%	009014-93-1	

SECTION 03 : PHYSICAL DATA

PHYSICAL STATE	Liquid
ODOUR/APPEARANCE	Transparent, clear liquid
ODOUR THRESHOLD	N/A
VAPOUR PRESSURE	Not applicable
VAPOUR DENSITY (AIR=1)	Not applicable
% VOLATILE:	
BY VOLUME	Not determined
BY WEIGHT	< 0.1
EVAPORATION RATE	N/A
BOILING POINT	N/A
FREEZING POINT	N/A
pH	N/A
SPECIFIC GRAVITY	1.16 - 1.18
SOLUBILITY IN WATER (20C)	Insoluble
COEFFICIENT WATER/OIL DIST.	N/A



SECTION 04 : FIRE & EXPLOSION DATA

FLAMMABILITY	No
IF YES, UNDER WHAT CONDITIONS	N/A
MEANS OF EXTINCTION	Carbon Dioxide, water spray, dry chemical, foam
SPECIAL PROCEDURES	Wear self-contained breathing apparatus. Do not breath fumes. Use water-spray to keep containers cool
FLASHPOINT AND METHOD	>150 C. Closed cup
AUTO IGNITION TEMPERATURE	N/A
T.D.G.FLAMMABILITY CLASS	Not regulated
UPPER EXPLOSION LIMIT	N/A
LOWER EXPLOSION LIMIT	N/A
HAZARDOUS COMBUSTION PRODUCTS	Oxides of carbon (CO, CO2)
EXPLOSION DATA	
SENSITIVITY TO STATIC	None
DISCHARGE	
SENSITIVITY TO IMPACT	None
RATE OF BURNING	N/A
EXPLOSIVE POWER	N/A

SECTION 05 : REACTIVITY DATA

CHEMICAL STABILITY	
STABLE?	Yes
CONDITIONS TO AVOID	Excess curing agent. Excessive heat
COMPATIBILITY W/OTHER SUBSTANCES	
YES	
INCOMPATIBLE MATERIALS	Strong acids. Strong bases. Strong oxidizing agents
REACTIVITY	
UNDER WHAT CIRCUMSTANCES	Excessive heating over a long period of time degrades the resin. Hazardous polymerization can occur Oxides of carbon (CO, CO2)
HAZARDOUS PRODUCTS OF DECOMPOSITION	

SECTION 06 : TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	
SKIN CONTACT	Avoid gross contamination of skin. This product may cause skin irritation and/or sensitization after repeated contact
SKIN ABSORPTION	None known
EYE CONTACT	Irritating
INHALATION, ACUTE	Not considered a problem unless heated to high temperature.
INHALATION, CHRONIC	Refer to inhalation acute
INGESTION	Low toxicity
EFFECTS OF ACUTE EXPOSURE	Causes irritation, refer to route of entry.
EFFECTS OF CHRONIC EXPOSURE	Refer to route of entry Refer to hazardous ingredients section
LD 50 OF MATERIAL, SPECIES & ROUTE	Refer to hazardous ingredients section
LC 50 OF MATERIAL, SPECIES & ROUTE	Refer to hazardous ingredients section
EXPOSURE LIMIT OF MATERIAL	Refer to hazardous ingredients section
IRRITATION CAUSED BY MATERIAL	Causes eye irritation. May aggravate existing skin and eye disorders May cause skin sensitization.
SENSITIZING CAPABILITY OF MATERIAL	
CARCINOGENICITY OF MATERIAL	Not listed as a carcinogen by NTP, IARC and OSHA. Not listed as a carcinogen by ACGIH
REPRODUCTIVE EFFECTS	No reproductive effects.
SYNERGISTIC MATERIALS	Unknown

SECTION 07 : PREVENTIVE MATERIALS

PROTECTIVE EQUIPMENT	
GLOVES/TYPE	Impervious gloves
RESPIRATORY/TYPE	A NIOSH/MSHA approved respirator as necessary. Organic vapour type
EYE/TYPE	Splash proof eye goggles



FOOTWEAR/TYPE	Impervious footwear
CLOTHING/TYPE	Adequate protective clothes.
OTHER/TYPE	Eye wash facility should be in close proximity. Emergency shower should be in close proximity.
ENGINEERING CONTROLS	Adequate general and local exhaust.
SPILL/LEAK SPILL/LEAK	Eliminate all sources of ignition. Absorb with inert material. Flush area with water spray. Equip employees with appropriate protective equipment
WASTE DISPOSAL, METHOD AND EQUIPMENT	Incineration or sanitary land fill in accordance with local regulations.
HANDLING PROCEDURES AND EQUIPMENT	Avoid all skin contact. Avoid breathing vapours of heated materials. Keep away from heat, sparks and open flame. Wash thoroughly after handling.
STORAGE NEEDS	Store away from heat and ignition sources. Store away from incompatible materials. Store in a cool area. Store in a dry and well-ventilated area.
SPECIAL SHIPPING INSTRUCTIONS	Shipments of this product must be in compliance with all applicable Federal, Provincial and International Transportation regulations

SECTION 08 : FIRST AID MEASURES

EYE CONTACT	Flush eyes with a directed stream of lukewarm water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Consult a physician.
SKIN CONTACT	Wash affected skin areas with soap and water and rinse thoroughly. If irritation persists consult a physician.
INGESTION	Procedures not normally needed. If large quantities are ingested, seek medical advise.
INHALATION	Remove to fresh air. Consult a physician.
NOTES TO PHYSICIAN	

SECTION 09 : PREPARATION INFORMATION

PHONE #	888-527-2888
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